

19971130.ba v01_n804.bam.971130 v01_n805.bam.971130

>From ???@??? Sun Nov 30 12:37:18 1997
Message-Id: <199711301513.JAA04291@sco.theporch.com>
Date: Sun, 30 Nov 1997 09:13:46 CST
Subject: BOATANCHORS digest 1804

BOATANCHORS Digest 1804

Topics covered in this issue include:

- 1) WTB: Heathkit MR-1 Comanche
by W7FG <w7fgboat@w7fg.com>
- 2) Re: The recent to modify or not to modify thread...
by Bob Roehrig <broehrig@admin.aurora.edu>
- 3) Re: kill the heater to QSY?
by Bob Roehrig <broehrig@admin.aurora.edu>
- 4) Re: Question aboaut T-4XB
by Kevin Pease <hamradio@mm1001.theporch.com>
- 5) Re: transformer question
by Kevin Pease <hamradio@mm1001.theporch.com>
- 6) Valiant on 10 meters
by Ronnie Hull <w5sum@ms1.nwla.com>
- 7) Valiant Bias
by Ronnie Hull <w5sum@ms1.nwla.com>
- 8) Re: transformer question
by Ken Gordon <keng@uidaho.edu>
- 9) Re: transformer question
by Bob Roehrig <broehrig@admin.aurora.edu>
- 10) SX-101 Info Wanted
by Dick Dillman <ddillman@igc.apc.org>
- 11) Re: Pix file - RT-3/ARN-1
by John Ward <ke2st@frontiernet.net>
- 12) Re: transformer question
by John Ward <ke2st@frontiernet.net>
- 13) Re: kill the heater to QSY?
by Sandy W5TVW <ebjr@worldnet.att.net>
- 14) Re: transformer question
by Ed Tanton <n4xy@bellsouth.net>
- 15) Re: tidbit on CD radio surplus
by Dick Dillman <ddillman@igc.apc.org>
- 16) Collecting
by bill@skeeter.bvc.frco.com (William Hawkins)
- 17) Modifying gear...
by Ken Gordon <keng@uidaho.edu>
- 18) Re: Antenna Tuner Help Needed
by Don Reaves <dr@cei.net>
- 19) Tube Test Set TV-2B/U Manual Needed

Subject: Re: The recent to modify or not to modify thread...

Message-ID: <Pine.ULT.3.96.971129224627.1890A-100000@admin.aurora.edu>

On Sat, 29 Nov 1997, Benjamin D. Hall wrote:

> However, even in the R-390A's case, all of these radios were made with
> attention to the bottom line, so I'm happy to install things like fuses,
> three wire cords, inrush current limiters, and things of that nature that
> were deemed not needed or weren't available when they were made. But I
> know exactly what change these modifications will do to a set. And
> recently, I've got to admit that I've been using a rather beat-up National
> RCP as a test-bed for playing with AVC constants, increasing the 6V6's
> bypass capacitor value, etc...

Ben brings up an important point here. A lot of us are not design engineers, or at least not of tube era equipment. Part of the love of this hobby is to learn, and I have learned a lot by modifying some not-so-rare radios. A "test bed" radio is an excellent idea. A good friend of mine has a NC-125 that has always been opened up, sitting on one side for over 15 years, since he is always playing with it.

I know safety has been covered here before but I agree with Ben on this one too. To me, adding a polarized or 3-wire line cord and fusing is just good common sense, provided it is done correctly.

> Bottom line, my feeling is that your radio is your radio, and you are free
> to do with it what you want, keeping in mind that these radios are the last
> of their kind...

This is important too. You get a radio to be satisfied. If you get a pristine museum quality job and just want to look at it, I can understand that. If you want to use a radio day after day and some little thing about it annoys you and it can be "fixed" with a minor mod, then do it. I have had sets that I did not modify, like a SP-200 and a SX-43, and some Drake gear. Stuff I intend keeping forever and use regularly, like my HRO's, SP-600, and BC-348 have all had product detector mods installed (but they are reversible mods). If you don't like the set of original knobs on a radio, then change them, but keep the originals in case you ever sell or trade the radio.

I liked Hank's comments on the S-38. Not much one can do with such a set. You can't improve it - you just need a better set! Accept it for what it is.

"No one is listening until you make a mistake"
E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL

630-844-4898 Fax 630-844-5530

Date: Sat, 29 Nov 1997 23:10:00 -0600 (CST)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: MNHopkins@aol.com
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: kill the heater to QSY?
Message-ID: <Pine.ULT.3.96.971129230456.1890B-100000@admin.aurora.edu>

On Sat, 29 Nov 1997 MNHopkins@aol.com wrote:

> Now the other point -- can one really kill the heater of one of the push-pull
> tubes and operate at half the frequency of the previous doubling? Has anyone
> here actually done that?

No, one can't. However, if you have a PUSH-PUSH doubler stage, you can kill one filament and run it straight-thru. I have done this. I took a beat-up ARC-5 transmitter and ran the 1625's as a push-push doubler. Obviously, if you change the operation, you must also change the tank for the new frequency. The beauty of the push-push circuit is that the "dead" tube acts as a neutralizing capacitor.

"No one is listening until you make a mistake"
E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

Date: Sun, 30 Nov 1997 00:13:18 -0600 (CST)
From: Kevin Pease <hamradio@mm1001.theporch.com>
To: Jim Zellmer <raccoon.com!zellmer@mm1001.theporch.com>
Cc: Old Tube Radios <theporch.com!boatanchors@mm1001.theporch.com>
Subject: Re: Question about T-4XB
Message-ID: <Pine.LNX.3.95.971130001105.17050B-100000@mm1001.theporch.com>

The vox tube is quite susceptible to minute amounts of leakage which will hold the vox relay in. even if the tube checks ok on the tube tester it will fail to release. the slightest amount of gassyness is all it takes. Try different tubes and see what happens

also leakage in the vox timeconstant cap will also cause the same problem just replace the cap and see what happens.

Kevin Pease
WB0JZG
Mount Juliet, TN.

Date: Sun, 30 Nov 1997 00:08:39 -0600 (CST)
From: Kevin Pease <hamradio@mm1001.theporch.com>
To: dave metz <cfw.com!metzd@mm1001.theporch.com>
Cc: Old Tube Radios <theporch.com!boatanchors@mm1001.theporch.com>
Subject: Re: transformer question
Message-ID: <Pine.LNX.3.95.971130000438.17050A-1000000@mm1001.theporch.com>

On Sat, 29 Nov 1997, dave metz wrote:

> I have connected secondaries in series to add the voltage
> but sort of wondered if I am treading on voodoo electronics to parallel them
> for current capacity? My curiosity is wondering if they would be out of
> phase and burn it up---Quickly!
>

Just run a full wave with centertap and you will get the maximum current
that the transformer can supply.

That circuit works real well with a 5U4 rectifier tube. If the transformer
has no 5 volt winding you could drop the voltage with a power resistor and
be ok . Or if the current demands are not real high use a 6x4 rectifier
tube.

Also could use 2 silicone diodes with an appropriate dropping resistor for
inrush limit and current limit.

Kevin Pease
WB0JZG
Mount Juliet, TN.

Date: Sun, 30 Nov 1997 07:23:47 -0600
From: Ronnie Hull <w5sum@ms1.nw1a.com>
To: boatanchors@theporch.com
Cc: johnson@qth.net
Subject: Valiant on 10 meters

Message-ID: <3.0.5.32.19971130072347.007ad770@ms1.nwla.com>

My johnson valiant only puts out about 45 watts on 10 meters. I have a good set of finals, and the neutraliation is good. Any idea's men?

Ronnie

p.s.. I did n otice that I have to turn the grid drive control almost full clockwise to get sufficient drive...

```
*****
*                W5SUM                *
*                Ronnie Hull           *
*                ex: WN5AIA & WB5AIA    *
* Ten-Ten #2019                AMI #1057 *
*                3131 Meadow Parkway Dr. *
*                Shreveport, La USA 71108 *
*****
```

Date: Sun, 30 Nov 1997 08:09:21 -0600
From: Ronnie Hull <w5sum@ms1.nwla.com>
To: boatanchors@theporch.com
Cc: johnson@qth.net
Subject: Valiant Bias
Message-ID: <3.0.5.32.19971130080921.0079f4c0@ms1.nwla.com>

as previously stated, Im getting extremely low power output with my valiant on 10 meters. The tubes are good, the neutralization is good.

I checked the negative bias on pin 5 of the 6146's in the final, and they were way down. I adjusted the bias, but instead of the -70 volts called for in the manual, I get a max of about -50 volts with the pot turned wide open..

hmmm...

I set the clamper current to 10ma, as per the manual. Everything else looks good.

Ronnie

```
*****
*                W5SUM                *
*                Ronnie Hull           *
*                ex: WN5AIA & WB5AIA    *
* Ten-Ten #2019                AMI #1057 *
```

* 3131 Meadow Parkway Dr. *
* Shreveport, La USA 71108 *

Date: Sat, 29 Nov 1997 21:14:07 -0800 (PST)
From: Ken Gordon <keng@uidaho.edu>
To: dave metz <metzd@cfw.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: transformer question
Message-ID: <Pine.BSF.3.95.971129210704.11433A-100000@piobaire.mines.uidaho.edu>

> question is : I don't know the miliamp capacity of each winding but being
> equal output, could one parallel these secondaries to gain the current
> rating of each?

Yes...carefully.

> I have connected secondaries in series to add the voltage
> but sort of wondered if I am treading on voodoo electronics to parallel them
> for current capacity?

No, you are not. You simply must "phase" them properly.

> My curiosity is wondering if they would be out of
> phase and burn it up---Quickly!

No. Simply connect them in parallel with an AC voltmeter connected across them to measure the voltage. Put a low value fuse (1/4 amp or so) in series with the input line, then turn it on.

If your voltmeter reads 275 volts, you are in fat city. If it reads 0 volts, simply reverse the leads from ONE winding. USUALLY there won't be enough current drain to blow the fuse even when connected so that phases are 180 degrees out.

However, voltages from both winding really should be equal. Otherwise too much current will be taken from the higher voltage winding. It would be like putting a 12 volt battery in parallel with a 6 volt. The 12 volt one would "charge" the 6 volt one.

Ken W7EKB

Date: Sat, 29 Nov 1997 23:16:15 -0600 (CST)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Boatanchors <boatanchors@sco.theporch.com>
Subject: Re: transformer question
Message-ID: <Pine.ULT.3.96.971129231546.1890D-100000@admin.aurora.edu>

Yes, you can parallel windings of identical voltage. To prevent burnout, I install a 120V lamp in series with the primary, say about a 40 watt bulb. If you parallel the secondaries with the phasing wrong, the lamp will light about full brilliance. With correct phasing, the lamp will glow very dimly or not at all, and you should measure very close to full voltage across the secondaries.

"No one is listening until you make a mistake"
E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

Date: Sat, 29 Nov 1997 21:29:12 -0800 (PST)
From: Dick Dillman <ddillman@igc.apc.org>
To: boatanchors@theporch.com
Subject: SX-101 Info Wanted
Message-ID: <2.2.16.19971129212839.3f5fe5b0@pop.igc.org>

It has come upon me that I need a Hallicrafters SX-101. Perhaps it's due to a recent rare event: the selling one of my other receivers. But in any case it's the '101 for me. The question is: which model?

According to Moore's 3rd the Mk II had "improved stability" over the Mk I, the Mk III kept the oscillator filaments on all the time and the IIIA replaced 160m with the converter band. The '101A had a "new product detector", 2 position AVC and band to band equalization.

Meanwhile Prof. Dachis sez that the oscillator filaments were kept on from the first, that there are only "minor electrical and cosmetic differences" between the Mk I, II, III and IIIA models and that the only significant difference between the IIIA and '101A is the converter band. No mention of a new product detector, no mention of a two position AVC switch.

So I ask you: Leaving aside the issue of 160m vs. the converter band, which

is the best performer? Extra points for minute details based on personal experience!

Thanks and Best Regards,

Dick

Dick Dillman
<ddillman@igc.apc.org>
WPE2VT W6AWO
Collector Of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

Date: Sun, 30 Nov 1997 00:10:15 -0500
From: John Ward <ke2st@frontiernet.net>
To: boatanchors@theporch.com
Subject: Re: Pix file - RT-3/ARN-1
Message-ID: <v03102807b0a6a47ed3d6@[209.130.130.211]>

Somebody wrote:

>>Hello Bob Lindgren.

>>

>>Your attempt to send a pix file to BA brings up a hassle I've had from time
>>to time.

>> All I get is a screen full of random
>>gibberish.

>

>>Step by step instructions for dealing with the image you sent would be a
>>VERY big help!

Even instructions may not be enough. I use a Macintosh, and a lot of PC files are useless to me. Bob's file was a jpg which I could easily read, but this is rarely the case..

Other lists I'm with discourage posting attachments of any kind. They suggest describing the attachment to the list, and emailing it privately to those who respond. In this case, a description of the text on the label would have filled the bill.

John, KE2ST

Date: Sun, 30 Nov 1997 00:02:52 -0500
From: John Ward <ke2st@frontiernet.net>
To: boatanchors@theporch.com
Subject: Re: transformer question
Message-ID: <v03102805b0a6a1411104@[209.130.130.211]>

>At the risk of asking too basic of a question.....

>

> ... This transformer seems to have two identical
>center tapped windings that are 275v from each side to the CT. So my
>question is : I don't know the miliamp capacity of each winding but being
>equal output, could one parallel these secondaries to gain the current
>rating of each? ... wondered if I am treading on voodoo electronics to
>parallel them
>for current capacity?

>>

>73's dave

If they are within 1 % of the same voltage, and you wire them properly, there is no reason, mythical or otherwise, why you couldn't run them in parallel. But why not do this the simple way? Wire each one to its own rectifier, and tie the diode outputs together through small series resistors. The series loss in the resistors will help balance the load, and you run no risk of generating unwanted circulating currents in the transformer. Diodes are cheap.

John, KE2ST

Date: Sun, 30 Nov 1997 05:37:10 +0000
From: Sandy W5TVW <ebjr@worldnet.att.net>
To: MNHopkins@aol.com, boatanchors@theporch.com
Subject: Re: kill the heater to QSY?
Message-ID: <19971130053708.AAA8399@LOCALNAME>

At 01:39 AM 11/30/97 +0000, you wrote:

>

>Frank Jones talk evolks not only the Super Gainer but the notorious Crystal
>Cracker, a push-pull two-tube rig so given to excess crystal current that one
>put a panel lamp in series with the xtal to ground and tuned for minimum
>billiance across the Biley. Such rigs were given to the generation of
>harmonics despite the tendency of a push-pull to cancel even orders, we are
>told.

>

>Now the other point -- can one really kill the heater of one of the push-pull
>tubes and operate at half the frequency of the previous doubling? Has anyone
>here actually done that?
>

Gee! I've used the Frank Jones 6A6 (53) push pull oscillator circuit for years (since 1951!) NEVER had ANY crystal cracking troubles with it! Presently using two such circuits, one in a three RK-34 breadboard rig, one in the oscillator drives two in push-pull/parallel in the final with 350-400 volts on the whole works. Another is a homebrewed "modern" rig that uses a pair of 50JY6 sweep tubes in push pull with a voltage doubling-line operated power supply. It runs about 80 watts input and works very well. Both rigs chirp a bit, but have never lost an FT-243 rock on 160, 80 or 40 meters. Even tried the breadboard on 20 with HC-6/U rocks. Chirps like a bird but the rocks survive OK.

The circuit I remeber as a crystal popper is the Infamous "Tri-Tet"! It will blow a rock in a heartbeat if the cathode tank isn't right!

73,

E. V. Sandy Blaize, W5TVW

"Boat Anchors collected, restored, repaired, traded and used!"

417 Ridgewood Drive

Metairie, LA., 70001

860 Hartley 'ECO' under construction**
*** Looking for a TRC-10 transceiver *****
*** Looking for an RAL receiver *****

Date: Sun, 30 Nov 1997 00:38:18 -0500
From: Ed Tanton <n4xy@bellsouth.net>
To: metzd@cfw.com
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: transformer question
Message-ID: <3.0.1.32.19971130003818.00aa4620@mail.atl.bellsouth.net>

Hi Dave... you can indeed parallel 'identical' transformer windings IF you can separate that CT into two distinct wires. If you cannot, you are correct: the xfmr will not like it if you just connect the ends together. To determine which wire to use for which once you separate them is purely a mechanical ohmmeter thing. To make sure about the phasing you can connect the CT end of winding 1 to the bottom of winding 2. If, when you apply power, there is 0 volts between the top of winding 1 and the CT end of winding 2, voila! Since nobody is in a complete circuit, you cannot burn it up looking at it. Remember: HAZARDOUS voltages!!! Also, note: TEK tended to do some strange things with their old 'scope power supplies, floating them

73

"Think you can, think you can't: either way you're right!" Henry Ford

Date: Sat, 29 Nov 1997 21:43:10 -0800 (PST)
From: Dick Dillman <ddillman@igc.apc.org>
To: Ho4bart@AOL.COM, boatanchors@theporch.com
Subject: Re: tidbit on CD radio surplus
Message-ID: <2.2.16.19971129214213.463f8afa@pop.igc.org>

At 02:22 AM 11/29/97 -0500, you wrote:

```
>i also learned later that in some areas ( not washington,  
>maybe montana or california ) some USNavy field portable  
>TBW transmitters 0.2-0.6 and 3-18 mc/s were salted  
>away in the CD caches. i think these came out in the  
>last 10 years? there were also supplies of crackers ( i mean  
>eatables, lest there be any confusion ) and painkiller  
>drugs, these were broken into and stolen by drug  
>enthusiasts.
```

I don't know about the radios or the drugs, Hue, but I do know about the crackers. An ex-girlfriend of mine with unusual tastes (Natch! She hung out with me, after all.) gave me an enormous tin of those things a long time ago. We kept in touch and a few years ago I ceremonially open the tin in her presence and consumed some of the contents. Not bad! Tasty in fact. Would have gone perfectly with a big ol' block of surplus cheese!

Regards,

Dick

Dick Dillman

<ddillman@igc.apc.org>
WPE2VT W6AWO
Collector Of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

Date: Sat, 29 Nov 1997 23:44:46 -0600
From: bill@skeeter.bvc.frco.com (William Hawkins)
To: boatanchors@sco.theporch.com
Subject: Collecting
Message-ID: <9711300544.AA13633@skeeter.bvc.frco.com>

AARP's "Modern Maturity" ran a survey on collections last summer. Since many folks here seem to collect, and some are over 50, you might be interested in some of the results. As the article says, acquiring minds want to know.

38% started before age 25, 30% after age 40
49% collect for love, 28% for nostalgia, 11% for money.
12% collect for posterity (might be higher in the BA group).
10% have 25 or fewer items, 64% have hundreds and more.
6% regularly trade items, 31% occasionally, the rest never.
42% say displaying the collection gives the most pleasure.
51% don't care what anyone thinks of their collecting habits.

The article touches on 'obsession' with a few examples, but that wasn't a question on the survey.

The fact that 63% never part with an item once acquired is what keeps the estate sale dealers in business, and what drives the heirs to distraction. It also accounts for why the idea of circulating BA's among listmembers never caught on, tho it was discussed when the list was smaller.

I wouldn't be surprised to learn that collecting entered the gene pool during the Ice Ages, when you didn't survive if you didn't collect food and firewood. So it's down there in the basic reflexes of life, right?

Regards,
Bill Hawkins

Date: Sat, 29 Nov 1997 22:19:29 -0800 (PST)
From: Ken Gordon <keng@uidaho.edu>

To: boatanchors@sco.theporch.com

Subject: Modifying gear...

Message-ID: <Pine.BSF.3.95.971129221738.12008B-100000@piobaire.mines.uidaho.edu>

I mentioned in a recent post the AN/SRR/FRR series of receivers and what I had done to several to make them more reliable.

What I meant to say was the SRR-11/12/13 series of receivers.

Sorry.

Ken W7EKB

Date: Sat, 29 Nov 1997 22:57:34 -0600 (CST)

From: Don Reaves <dr@cei.net>

To: George Humphrey <gah@koyote.com>

Cc: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: Antenna Tuner Help Needed

Message-ID: <Pine.LNX.3.91.971129224204.20007I-100000@kc5jh.reaves.net>

There is a picture and description of the CA-573 on the back page of Fair Radio's WS-97-2 catalog, which arrived here today.

Hi freq coil resonates from 14-16 mc, and low freq coil from 2-5.5 mc. No power rating given, but the air variables are .02 spacing.

There is quite a bit of WWII surplus stuff, some UNUSED, in this issue. BC-459A, BC-456A, BC-653A, BC-1000. Navy TRF RU-18 in original crates with all accessories!

Don Reaves WA5BBS

dr@cei.net

Little Rock 72211

Date: Sun, 30 Nov 1997 01:05:23 -0800

From: Hal Waite <halwaite@sprintmail.com>

To: Boatanchors <boatanchors@theporch.com>

Subject: Tube Test Set TV-2B/U Manual Needed

Message-ID: <34812C53.67B2@sprintmail.com>

I have been fortunate enough to obtain one of these testers but without the manual (too many meters to figure out!). The unit has the roll chart and Supplementary Test Data booklet dated January 1960.

Was this the last supplement published and does anyone have a suggestion for obtaining the manual? Thanks in advance.

73 de Hal K3AB/7

Date: Sun, 30 Nov 1997 07:03:03 -0500 (EST)
From: Ho4bart@aol.com
To: boatanchors@sco.theporch.com
Subject: Morrow conclusions
Message-ID: <971130070301_1051538183@mrin58.mail.aol.com>

tnx to all
who opined on this question
of modifying the mobile supplies
for the Morrow twins.
i bow to the wisdom
of those who counseled
that this equipment was uncommon enuff
that it should not be radically redone.
i will attempt to run low voltage ac into them and
circumvent the vibrator that way
or maybe just run them exactly as is,
with the vibrator humming.
accepting the inefficiencies and extra weight
as other facets of this equipment's character and history
seems like i forgot one of the basic groundrules
that you don't severely redo the uncommon / rare equipment.
of course -- unless the equipment is really rare--
component value changes
to improve or tailor operation
like removing the output capacitor in the RBB
are always fair game.
hi quality listening audio was far from the designer's mind !

one suggestion i summarily nixed:
that i or someone else might want
to use this equipment mobile.
no way
buy a new, still expendable radio for this.
you've all seen the ads that read
"Never Mobiled "
there's a reason for that!

tnx, hue miller

Date: Sun, 30 Nov 1997 07:34:24 -0500 (EST)
From: Ho4bart@aol.com
To: boatanchors@sco.theporch.com
Subject: what is a "Car Radio Conversion"
Message-ID: <971130073423_-623186353@mrin79>

other day at the paper rack
i looked thru some vintage car shopper
in vain hope of finding the elusive shortwave carradio
or, even some old toob type car radios
i saw some ads that read,
"car radio repairs and conversions."
what means this "conversion" ?
til i started looking,
it had seemed likely that there would be
at some junkyard somewhere, nearby
stacks of the darn things, like there used to be,
wasn't all that long ago.
where'd they all go?
landfills and metal foundries
really?
i was given a 1935 car radio with tuning head
ugly paint job
tuning head dial too small
be suicide to tune around on this
in search of truckerbilly or latenite talk dx
and try to steer
while on gonzo allnite crossdesert drives
and radio too senior a citizen to still have to tour.
geez, maybe i'll have to build one?
wouldn't that be something, toob carradio
pushpull 6V6's
with S-meter
with digital readout
but none of this step-tuning and interstation muting?
hue miller
"If i were a truck drivin man
i'd drive all nite by the dashboard lites
radio blastin on the AM band
if i were a truck drivin man" (-- Doug Watson)

Date: Sun, 30 Nov 1997 09:30:59 -0400

From: Jim Garland W8ZR <4CX250B@miavx1.acs.muohio.edu>
To: boatanchors@theporch.com
Subject: Re: Wiring Transformer Secondaries in Parallel
Message-ID: <v0310280eb0a71ae9c91f@[134.53.65.12]>

> I don't know the miliamp capacity of each [identically-rated secondary]
>winding but being
>equal output, could one parallel these secondaries to gain the current
>rating of each? I have connected secondaries in series to add the voltage
>but sort of wondered if I am treading on voodoo electronics to parallel them
>for current capacity? My curiosity is wondering if they would be out of
>phase and burn it up---Quickly!
>
>73's dave

Hi Dave,

You've asked an interesting question. If the secondaries have identical voltage and current ratings, then you won't get into any trouble wiring them in parallel. The current draw will be equally shared between the windings. You could check the secondary d.c. resistance of each winding just to make sure. If the windings are significantly mismatched, however, (in terms of their current ratings and/or d.c. resistance) then the lower resistance winding would be taxed proportionately harder (i.e., draw more current) than the higher resistance winding, even if the open circuit (no-load) voltages of the secondaries are the same. Under a load, the higher resistance winding would drop a relatively larger fraction of its open-circuit voltage across its own internal resistance, which is why less load current would be drawn from it.

You are correct to worry about the phase relationship. If you get the windings hooked backwards, then umpty-ump amps will flow, as each winding drives current through the other. If this doesn't quickly blow a fuse, the transformer will overheat or melt the secondary wires.

Although you could check the individual phases of the windings with an oscilloscope, doing so is a little tricky. You'd need a dual channel scope, with the sweep for the two channels set in the "chop" mode and not the "alternate" mode.

An easier way would be to connect one wire from each secondary together, and measure the AC voltage between the remaining two wires with an AC voltmeter. You'll either measure 0 volts, or twice the single-secondary voltage, depending on the phases. If you get 0 volts, then you've guessed right. Disconnect the VTVM and connect the two loose wires together and you're done.

Finally, you could just use trial-and-error, and ramp up the primary

voltage on a variac, with no load on the parallel-connected secondaries. If the transformer draws current and hums, then turn it off (quickly) and reverse the hookup.

73,

Jim Garland W8ZR
Oxford, OH

Date: Sun, 30 Nov 1997 07:40:44 -0600 (CST)
From: Kevin Pease <hamradio@mm1001.theporch.com>
To: Old Tube Radios <theporch.com!boatanchors@mm1001.theporch.com>
Subject: Re: Valiant on 10 meters
Message-ID: <Pine.LNX.3.95.971130073947.17419A-100000@mm1001.theporch.com>

On Sun, 30 Nov 1997, Ronnie Hull wrote:

> p.s.. I did n otice that I have to turn the grid drive control
> almost full clockwise to get sufficient drive...

I guess that means that you don't have suficient drive. I would check out the multipliers and drivers.

Kevin Pease
WB0JZG
Mount Juliet, TN.

Date: Sun, 30 Nov 1997 08:59:14 -0600
From: Ronnie Hull <w5sum@ms1.nwla.com>
To: boatanchors@theporch.com
Cc: johnson@qth.net
Subject: Valiant rides again...
Message-ID: <3.0.5.32.19971130085914.007b1470@ms1.nwla.com>

well, even though I am 10 volts shy of what is called for in the manual for the bias, it did the trick. Well, that and probably all the other tweeking I did.

105 watts out on 10 meters, at 29.1 I'm very pleased. Now, if the band would just open up.

Ronnie

```
*****
*                W5SUM                *
*                Ronnie Hull           *
*                ex: WN5AIA & WB5AIA    *
* Ten-Ten #2019                AMI #1057 *
*                3131 Meadow Parkway Dr. *
*                Shreveport, La USA 71108 *
*****
```

Date: Sun, 30 Nov 1997 09:01:18 -0600
From: Ronnie Hull <w5sum@ms1.nwla.com>
To: boatanchors@theporch.com
Cc: boathanchors@qth.net
Subject: De-Oxid
Message-ID: <3.0.5.32.19971130090118.007b58d0@ms1.nwla.com>

I cleaned all my rigs with de-oxid this past week. This stuff is great. I have yet to see ANYTHING that will knock off the old black oxidation from a switch contact like that.

now the question. Do I need to go back and wash this stuff out with something else? Will it continue to work on my contact? In short, will it eat everything up. It has to be powerful stuff to work like it does. I would be po'd if all my switches fell to pieces in a week or two ! LOL

Ronnie

```
*****
*                W5SUM                *
*                Ronnie Hull           *
*                ex: WN5AIA & WB5AIA    *
* Ten-Ten #2019                AMI #1057 *
*                3131 Meadow Parkway Dr. *
*                Shreveport, La USA 71108 *
*****
```

Date: Sun, 30 Nov 1997 10:07:05 -0400
From: Jim Garland W8ZR <4CX250B@miavx1.acs.muohio.edu>
To: boatanchors@theporch.com
Subject: Re: SX-101 Info Wanted
Message-ID: <v03102811b0a7221578ca@[134.53.65.12]>

>Meanwhile Prof. Dachis sez thatthe only significant
>difference between the IIIA and '101A is the converter band.

Hi Dick,

I can state confidently that both the 101 Mark IIIA AND the 101A have the converter band, instead of 160m. (I have the IIIA and a friend has the 101A.) I'd make my decision on the basis of whether you prefer the converter band or 160 meters. If the latter, then I'd go for the Mark III, since it's the latest one with 160m. If you want the convertor band, then either the IIIA oar 101A would do fine, with very little difference in performance. In my opinion, the condition of the radio should be the driving factor; I'd pick the one that was in the best shape, regardless of which model it was. They're all fine radios.

73,

Jim Garland W8ZR

Date: Sun, 30 Nov 97 08:57:18 PST
From: gpewitt@execpc.com
To: ddillman@igc.apc.org, boatanchors@listserv.tempe.gov,
boatanchors@theporch.com
Subject: Re: tidbit on CD radio surplus
Message-ID: <Chameleon.971130090921.gpewitt@execpc.com.execpc.com>

Are you talking about the Bulgar crackers? Those things were terrible!! They might have sustained life -if- you could get anyone to eat them. I used to work in a building with a fallout shelter and there were tons of old civil defense rations and medicine. The medical supplies were all outdated (like 20 years) and probably would have done more harm than good. The only useable items were the geiger counters. For some reason in one of the boxes there was a quart bottle of pure liquid nicotine. Enough to poison thousands of people. Hmmm! "On the Beach" anyone? After the Bulgar crackers you'd probably want the Nicotine. Too bad there weren't any radios. Not even C.D. receivers.
73 Gary

On Sat, 29 Nov 1997 21:43:10 -0800 (PST) Dick Dillman wrote:

there were also supplies of crackers (i mean
>>eatables, lest there be any confusion) and painkiller
>>drugs, these were broken into and stolen by drug
>>enthusiasts.
>
>I don't know about the radios or the drugs, Hue, but I do know about the
>crackers. An ex-girlfriend of mine with unusual tastes (Natch! She hung
>out with me, after all.) gave me an enormous tin of those things a long
time
>ago. We kept in touch and a few years ago I ceremonially open the tin in
>her presence and consumed some of the contents. Not bad! Tasty in fact.
>Would have gone perfectly with a big ol' block of surplus cheese!
>
>Regards,
>
>Dick
>
>
>

Name: Gary Pewitt N9ZSV/KT
6120 W. Calumet Rd. Apt 204
Milwaukee, WI 53223
414 355 8147 Home 414 297 4307 Work
E-mail: gpewitt@execpc.com
Date: 11/30/97
Time: 08:57:18

End of BOATANCHORS Digest 1804

>From ???@??? Mon Dec 01 01:12:43 1997
Message-Id: <199711302136.PAA08708@sco.theporch.com>
Date: Sun, 30 Nov 1997 15:36:00 CST
Subject: BOATANCHORS digest 1805

BOATANCHORS Digest 1805

Topics covered in this issue include:

- 1) Re: Various & Sundry & Real Life
by "Roberta J. Barmore" <rbarmore@indy.net>
- 2) Mica caps.
by Ken Gordon <keng@uidaho.edu>
- 3) GRR-5, URM-90 F.S.
by Randy Zelick <h2rz@odin.cc.pdx.edu>
- 4) Re: PP xtal osc....
by Ken Gordon <keng@uidaho.edu>
- 5) find black rubber covered ant wire ??
by "ROBERT W DOWNS, WA5CAB" <RWDowns_WA5CAB@compuserve.com>
- 6) HS-33 HEADPHONES/BC-348
by "ROBERT W DOWNS, WA5CAB" <RWDowns_WA5CAB@compuserve.com>
- 7) TV-7/U Calibration???
- by Bob Login <jlogin@gville.mindspring.com>
- 8) Re: SX-101 Info Wanted
by Jim Lockwood <jmlckwd@mindspring.com>
- 9) RE: Tube Test Set TV-2B/U Manual Needed
by "ROBERT W DOWNS, WA5CAB" <RWDowns_WA5CAB@compuserve.com>
- 10) Re: find black rubber covered ant wire ??
by john <johnmb@mindspring.com>
- 11) BC-1060-A Oscilloscope
by Jon Schmidt <schmidtj@ix.netcom.com>
- 12) HT-44 Octal Plug
by K1DPM@aol.com
- 13) Schematics...
by Ken Gordon <keng@uidaho.edu>
- 14) Re: transformer question
by John Kolb <jlkolb@cts.com>
- 15) a big Johnson
by Brian.Harris@sv.sc.philips.com (Brian Harris)
- 16) VIKING MOD MODS FM HELL
by polepeeg@aa4rm.radio.org (BA x-actions hr)
- 17) ARRL cracks xtals with Tri-Tet?
by MNHopkins@aol.com
- 18) Re: ATTACHED FILE
by "A.B. Bonds" <ab@vuse.vanderbilt.edu>
- 19) Diagram RCA aircraft transmitter
by Guido ROELS <on6rl@tornado.be>
- 20) FS/FT: Bendix NOS "MIL" connectors
by Sandy W5TVW <ebjr@worldnet.att.net>
- 21) Re: a big Johnson
by polepeeg@aa4rm.radio.org (BA x-actions hr)
- 22) RE: Tube Test Set TV-2B/U Manual Needed
by "Joseph W. Pinner" <kc5ijd@sprintmail.com>
- 23) attached binary's et al
by "Lawrence R. Ware" <lrware@pipeline.com>
- 24) Re: attached binary's et al
by jackiv@juno.com (John M Iverson)

25) It's alive!!! It's alive!!!
by Ed Tanton <n4xy@bellsouth.net>

Date: Sun, 30 Nov 1997 11:10:51 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: "Don L. Davis" <dxguy@earthlink.net>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Various & Sundry & Real Life
Message-ID: <Pine.SUN.3.96.971130102212.7752A-100000@indy1>

Hi!

I'll let off a little steam on this topic....

'Tis my general inclination to "restore" old ham gear rather than "repair;" but that depends on the age of the gear and how much wear it's had. (Heck, most KWM-2As are new enough to merit repairs rather than restoration). I have little faith in tack-soldering and connections floating in mid-air, so I don't do 'em. (And I probably wouldn't last a home-TV service shop for that very reason; 'sokay, that's not what I do for a living).

At work, most of what I do is fix things, but most of it is big and/or expensive and/or the only one we've got, and the usual rule is to do it quickly but 100%; all the mechanical stuff needed to make it work has to be done *solidly* and the parts have to be as good as the originals...but decorative elements tend to be left for last. (I've got an earth-station antenna controller in the rack right now with no top on the cabinet and the nifty little front-panel handles left off. They'll go back on, by and by, but we didn't need 'em to make the thing work and the studio wanted their satellie antenna back *now!*)

Patch-jobs? We do 'em when we have to; the control system for the ENG receiver (a 2GHz link from live-on-the-scene trucks) is an utter hack, with control and metering connections--and a decimal to BCD diode matrix--sprawled out on barrier blocks screwed to some scrap PC board: the old receiver died and we went through a couple of ancient interim replacements, ending up installing the new one without its own control system (which hasn't arrived yet!). Had to swap 'em in and out fast and easy, thus the slop-job. One rule I follow is that temporary lashups have to be solid but should look *awful,* lest one be tempted to leave 'em. While this can make one look pretty bad to succeeding techs, should you leave a few "pro tem" jobs behind, it virtually ensures the mess won't stay forever. ;)

Modifications are another thing entire. Designers aren't gods and

they can't anticipate every possibility. Years ago, Jack Selmeier (late of Collins, then working as a freelance PE) was hired to help us modify a Collins 5kW AM rig for AM stereo. Happened that Jack had bossed the team that designed it, and he'd done most of the exciter/pluse-width modulator design, which was the trickiest part of the stereo mods.

At one point, the good PE was poring over the modulator, brow furrowed. Finally he stood up, waved us mere station engineers over, indicated a portion of the schematic and said, "I don't know what I was thinking of when I did this--any of you have a clue?"

That's how it is--folks solve the problems in the gear they design the best way they know how at the time, and then move on to the *next* thing. It may not be the very best method, or it may be one that turns out to be awkward a dozen years later when something new crops up; but it's what works.

(End result, BTW, was the rig made *fine* stereo, the first really successful conversion of that model transmitter. But it wasn't done without a lot of work--change one thing and track down all the effects, over and over and over).

So it is with any piece of gear--the first thing to figure out is what the gang that designed it was thinking of, what problem they were trying to solve. Then you can work out how your mod will solve it, and what other problems it may introduce and how to solve *them.*

The first thing to do is make the gear work as well as it originally did; then you've got a place to start. An awful lot of the time (in my experience, anyway), once you've got the gadget back up to snuff, it turns out to not need any major mods.

The best mods are the least invasive, IMO; an outboard product detector for gear that lacks one, for instance, rather than ripping into the existing detector. Mods that attempt to turn a sow's ear into a silk purse are the worst, and usually end up doing the opposite.

73,
--Bobbi

Date: Sun, 30 Nov 1997 08:41:35 -0800 (PST)
From: Ken Gordon <keng@uidaho.edu>
To: boatanchors@sco.theporch.com
Subject: Mica caps.
Message-ID: <Pine.BSF.3.95.971130084030.15818H-100000@piobaire.mines.uidaho.edu>

Anyone know where I might be able to find some decent transmitting mica caps?

I need some for some planned projects.

Ken W7EKB

Date: Sun, 30 Nov 1997 08:46:38 -0800 (PST)
From: Randy Zelik <h2rz@odin.cc.pdx.edu>
To: Posting Boatanchors <boatanchors@theporch.com>
Subject: GRR-5, URM-90 F.S.
Message-ID: <Pine.PTX.3.91.971130081814.19065A-100000@odin.cc.pdx.edu>

Hi all,

Well I just bought sumpin', and the radio account is running on empty, and so I need to sell a couple of items...

1. AN/URM-90 LCR bridge. This is a way cool test instrument with a green eye tube and galvanometer. In VGC, seems to work but haven't checked calibration. Measures resistance: 0.1 milliohm - 11 megohm +/-0.15%, capacitance 0.1 pF - 1,100 uF +/-0.5%, and inductance 0.1 uH - 1,100 H +/-1.0%. This is considerably better accuracy than a 3.5 digit hand-held meter. Also measures dissipation factor and storage factor. In gray military case with lid (which serves as storage for adapters, cables, etc). Includes original manual. \$75.00, you ship. Probably will weigh 40 lbs packed, from 97219.

2. GRR-5 receiver. Korean war vintage Signal Corps (and hence O.D.) set made up of R-174/URR receiver unit and PP-308/URR power supply. These two units are held together in a single wrap-around case. Four bands - 1.5-2.7, 2.7-5.0, 5-9.5, 9.5-18 MHz. This is the set with the amazing large circular dial and 9 preset screws which you tighten through a little hole in the dial. A key for tightening hangs from a chain on the front panel. You have either continuous tuning (really nice smooth gearworks) or click-stops based on the location of the stop-screws. This one was built by Emerson Radio. Works well, except for dial light which has a broken wire to it. Has BFO and mode switch positions for AM or CW. Copies SSB pretty well, and has remarkably good sound on AM. Power supply runs from 6, 12, 24 volts DC or 110 VAC and has a built in speaker (switch selects this or an external one). Includes the 110VAC power cable. Case is excellent. R-174 top front of housing was once bent down; this was repaired by someone and hand brush repainted (probably depot repair?!). Otherwise very nice cosmetics. Special with this set is (1) all the dust covers for the connectors are present, (2) includes original multi-section whip antenna, (3) includes quite rare spares kit. I have a xerox of the manual somewhere, but can't find it right now. Included when I do. Price is \$125.00, you ship from 97219. Guess about 60 lbs packed.

Send an email, or call me at home: 503-246-8164 (before 9:00 PM, PST).

Later,

=Randy=

R. Zelick
Dept. Biology
Portland State University
P.O. Box 751
Portland, OR 97207
503-725-3086 (voice), 503-725-3888 (fax)
email: h2rz@odin.cc.pdx.edu
web: <http://odin.cc.pdx.edu/~h2rz/>

Date: Sun, 30 Nov 1997 08:50:55 -0800 (PST)
From: Ken Gordon <keng@uidaho.edu>
To: Sandy W5TVW <ebjr@worldnet.att.net>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: PP xtal osc....
Message-ID: <Pine.BSF.3.95.971130084408.16197B-100000@piobaire.mines.uidaho.edu>

> At 01:39 AM 11/30/97 +0000, you wrote:

> >

> >Frank Jones talk evolks not only the Super Gainer but the notorious Crystal
> >Cracker, a push-pull two-tube rig so given to excess crystal current that one
> >put a panel lamp in series with the xtal to ground and tuned for minimum
> >billiance across the Biley.

Hmmmm....this really doesn't sound like the Frank Jones rig. It has ONE
tube (essentially a 6N7) and is purportedly EASY on crystals.

> >Such rigs were given to the generation of
> >harmonics despite the tendency of a push-pull to cancel even orders, we are
> >told.

By whom?

> >

> Gee! I've used the Frank Jones 6A6 (53) push pull oscillator circuit
> for years (since 1951!) NEVER had ANY crystal cracking troubles with it!

Sandy, what does it sound like? Chirp? Clean?

> on 160, 80 or 40 meters. Even tried the breadboard on 20 with HC-6/U
> rocks. Chirps like a bird but the rocks survive OK.
>

Chirp is NOT always ONLY the result of too high crystal current. There are many other things in the circuit besides the crystal which can contribute.

> The circuit I remeber as a crystal popper is the Infamous "Tri-Tet"!
> It will blow a rock in a heartbeat if the cathode tank isn't right!
>

Right!!!!

Ken W7EKB

Date: Sun, 30 Nov 1997 11:55:18 -0500
From: "ROBERT W DOWNS, WA5CAB" <RWDowns_WA5CAB@compuserve.com>
To: "INTERNET:boatanchors@theporch.com" <boatanchors@theporch.com>
Subject: find black rubber covered ant wire ??
Message-ID: <199711301155_MC2-2A27-51CB@compuserve.com>

Hue,

What was the W- number? The WW-II black rubber covered antenna wire that=
I'm familiar with, W-128 and W-142, are both around 6mm (1/4") dia.

Assuming that the I3mm dia. wasn't a typo, have a roll of black test lea=
d
wire (flat, not shiny) found at a local surplus dealer that I'd be willin=
g
to "part out".

73, Robert W. Downs, WA5CAB
RWDowns_WA5CAB@compuserve.com
Houston, TX

Date: Sun, 30 Nov 1997 11:55:25 -0500
From: "ROBERT W DOWNS, WA5CAB" <RWDowns_WA5CAB@compuserve.com>
To: "INTERNET:boatanchors@theporch.com" <boatanchors@theporch.com>
Subject: HS-33 HEADPHONES/BC-348
Message-ID: <199711301155_MC2-2A27-51CE@compuserve.com>

Ronnie & group,

"Proper" headphones (historically proper, that is) for the BC-348 (& BC-342, BC-603 et al) depend upon whether the radio is connected for high=

or low impedance and whether the operator has a helmet or not. Through about 1942, most sets were Hi-Z and most commonly issued headset would be=

HS-18 (without) and HS-23 (with) HB-7 headband. These are both 8000 ohm=

headsets. From sometime in 1943, most sets were built (or converted) for=

Low-Z. Common headsets were HS-38 (without) and HS-33 (with) HB-7 headband. These are both 600 ohm. Ground sets were issued with HS-30 instead of HS-33. These are the earplug type units, which I personally don't find very comfortable to wear, but they will fit under a steel helmet. All five sets normally have short cords with PL-54 bailout plugs=

and require CD-307 extension cord (some HS-30's have longer cords and PL-55's). HS-18 and HS-38 were installed in the aviator's or tanker's helmet. HS-23 and HS-33 may have rubber cushions MC-162 or MX-41/AR. I've

also seen them with the larger Navy style rubber and leather cushions.

Ronnie, if you still need a headset, contact me direct.

73, Robert W. Downs, WA5CAB
RWDowns_WA5CAB@compuserve.com
Houston, TX

Date: Sun, 30 Nov 1997 12:29:30 -0500
From: Bob Login <jlogin@gville.mindspring.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: TV-7/U Calibration???
Message-ID: <199711301745.MAA17858@brickbat8.mindspring.com>

Fellow BA-er's--I hve become suspicious of the readings on my tester. Can someone help me out with the procedure for calibration? I do not hve a manual would like to get a copy that explains calibration?--Tnx Bob AA8A

Date: Sun, 30 Nov 1997 13:02:32 -0500
From: Jim Lockwood <jmlckwd@mindspring.com>
To: ddillman@igc.apc.org, Old Tube Radios <boatanchors@theporch.com>

Subject: Re: SX-101 Info Wanted
Message-ID: <3.0.32.19971130130226.00713084@pop.mindspring.com>

At 09:29 PM 11/29/97 -0800, Dick Dillman wrote:

>

>It has come upon me that I need a Hallicrafters SX-101.

A true BA fanatic. Imagine... using the name of a radio and the word
"need" together in the same sentence. Congratulations, Dick!

>

>

>So I ask you: Leaving aside the issue of 160m vs. the converter band, which
>is the best performer? Extra points for minute details based on personal
>experience!

At one time I had both an SX-101A and an SX-101 Mk III.

No question about it, the "A" is the better performer on SSB because of the
product detector. However, the Mk III that I have (sold the "A", BTW, at
Livermore a couple of years ago), always sounds better to me on AM..... a
major plus. The Mk III is super hot on all bands, and even hears things
on 10M that my NC-303 doesn't pull in (how's that for a tie in back to a
recent thread?).

I'd give the nod to the Mk III (in fact I did, you'll note) based on AM
quality, 160M coverage, minor cosmetic differences that appeal to me (white
dial pointer versus red in the "A"), and an overall, intangible
"personality" that just suits me.

73,

Jim - K4CCF
(formerly KM6NK, WA4K00, WN4K00)

Looking for original QSL cards from K4CCF

Date: Sun, 30 Nov 1997 13:21:07 -0500
From: "ROBERT W DOWNS, WA5CAB" <RWDowns_WA5CAB@compuserve.com>
To: "INTERNET:boatanchors@theporch.com" <boatanchors@theporch.com>
Subject: RE: Tube Test Set TV-2B/U Manual Needed
Message-ID: <199711301321_MC2-2A23-E691@compuserve.com>

Hal & group,

The Supplementary Test Data booklet was revised in 1962 and again in 1966=

=2E =

I think that was the last time. The tech manual, at least the one that covers the "B" model, is in four parts, Operator's Manual, TM 11-6625-316-12, Parts List TM 11-6625-316-20P, Depot Maintenance Manual TM 11-6625-316-35, and Parts List, TM 11-6625-316-34P. The Test Data Supplements TM 11-6625-316-12/1. The 1966 Supp. was only available on microfiche (from NTIS) by the time I got around to getting one. There is an earlier manual, TM 11-2661, but it only covers the TV-2/U. I made copies of most of the above for someone several years ago, but the check never arrived, so I still have them. If interested, contact me direct. You might try NTIS first. They have a Web Site, but I don't remember the address. I found it from CompuServe with GO NTIS and about three jumps.

73, Robert W. Downs, WA5CAB
RWDowns_WA5CAB@compuserve.com
Houston, TX

Date: Sun, 30 Nov 1997 13:26:57 -0500
From: john <johnmb@mindspring.com>
To: RWDowns_WA5CAB@compuserve.com, boatanchors@theporch.com
Subject: Re: find black rubber covered ant wire ??
Message-ID: <199711301831.NAA26879@brickbat8.mindspring.com>

Hue and Robert....
Fair has some of this in spools in the \$12 range...
Best
/John

At 11:55 AM 11/30/97 -0500, you wrote:

>Hue,
>
>What was the W- number? The WW-II black rubber covered antenna wire that
>I'm familiar with, W-128 and W-142, are both around 6mm (1/4") dia.
>
>Assuming that the 13mm dia. wasn't a typo, have a roll of black test lead
>wire (flat, not shiny) found at a local surplus dealer that I'd be willing
>to "part out".

>
>73, Robert W. Downs, WA5CAB
>RWDowns_WA5CAB@compuserve.com
>Houston, TX
>

Date: Sun, 30 Nov 1997 10:46:13 -0800
From: Jon Schmidt <schmidtj@ix.netcom.com>
To: boatanchors@theporch.com
Subject: BC-1060-A Oscilloscope
Message-ID: <3481B475.6249@ix.netcom.com>

Howdy Gang,

In my newly renewed effort to rid my abode of the things that will sit 'till they rot, I have come across a Signal Corps BC-1060-A Oscilloscope that I don't want. It's been a long time since I actually used this scope, but it seems to be working very well. I know that it is a stone-age scope in comparison to most any other scope, but there may be one of us out there who would enjoy having it. You know, might bring back some memories. Let me know if you are interested.

73's

Jon WD8JSA
San Clemente, CA

Date: Sun, 30 Nov 1997 14:16:41 -0500 (EST)
From: K1DPM@aol.com
To: schmidtj@ix.netcom.com, boatanchors@theporch.com
Subject: HT-44 Octal Plug
Message-ID: <971130141641_-1973639786@mrin42.mail.aol.com>

Hi guys..

A friend K1EXI is looking for the octal (I think) plug that goes into the back of an Ht-44. If you have one or are parting out such a unit, I would appreciate you selling it to me for him. Also, he needs diagram showing wiring for the plug...If you have a manual you can copy that would be perfect OR if you can please pass along info, that would be fine also.

Thanks!
Dick, K1DPM

Date: Sun, 30 Nov 1997 11:34:25 -0800 (PST)
From: Ken Gordon <keng@uidaho.edu>
To: boatanchors@sco.theporch.com
Subject: Schematics...
Message-ID: <Pine.BSF.3.95.971130112152.17698B-100000@piobaire.mines.uidaho.edu>

I have just scanned the schematic diagrams and parts lists for 4 transmitters which have been the subject of discussion on this list lately.

Although I have NOT yet made them available on my web page, I thought I should at least provide the URL for it now:

<http://www.mines.uidaho.edu/~keng/>

These will be:

- 1) The 813 Xtal oscillator from the back of QST for 1938.
- 2) A push-pull xtal oscillator transmitter using 2 ea 807s from my 3rd edition of "Practical Radio Communications". This was originally from RCA Tech Tips # TT-3 and was originally configured for 5 meters.
- 3) A push-pull dual triode transmitter, circa 1932. Most of the circuit is from the above mentioned handbook (Nilson and Hornung), slightly modified by myself from information taken from the following circuit.
- 4) 1932 Hartley taken from an article by George Grammer originally published in QST and subsequently modified slightly by NA4G Bob Keyes for use with more a more modern tube.

I intend to also re-draw, scan, and post a copy of the Frank Jones push-pull xtal controlled 10 watter which was recently mentioned. This transmitter is extremely simple and looks like a lot of fun to build and operate. It was originally published for use with either a 53 or a 6A6, both of which are functionally equivalent to the 6N7, although I think any small dual triode would work in this rig.

In case you don't think these qualify as BA, think of the power-supplies which would be needed to drive these, especially if you were to use a pair of 304TLs in the PP oscillator transmitter.

Ken W7EKB

Date: Sun, 30 Nov 1997 11:44:11 -0800 (PST)
From: John Kolb <jlkolb@cts.com>
To: Ken Gordon <keng@uidaho.edu>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: transformer question
Message-ID: <Pine.SCO.3.91.971130113937.3408C-100000@sd.cts.com>

On Sat, 29 Nov 1997, Ken Gordon wrote:

> > question is : I don't know the miliamp capacity of each winding but being
> > equal output, could one parallel these secondaries to gain the current
> > rating of each?
>
> No, you are not. You simply must "phase" them properly.
>
> No. Simply connect them in parallel with an AC voltmeter connected across
> them to measure the voltage. Put a low value fuse (1/4 amp or so) in
> series with the input line, then turn it on.

I find a much better way to determine the proper phasing is to only connect one end of each winding together, then connect a AC voltmeter to the other end of each winding. If the meter reads zero volts, the windings are in phase and the two leads connected to the voltmeter can be connected to each other. If the voltmeter reads twice the V of a single winding, the windings are 180 degrees out of phase.

John Kolb KK6IL

Date: Sun, 30 Nov 1997 13:44:09 -0800
From: Brian.Harris@sv.sc.philips.com (Brian Harris)
To: boatanchors@theporch.com
Subject: a big Johnson
Message-ID: <000AF469.001914@svlima.sv.sc.philips.com>

(a big Johnson)

Isn't that what everybody wants? Well, at least I do....a Johnson 500, that is....and on the air.

I have a Johnson 500 RF deck that's missing her power supply/modulator. Helluva a situation. Fortunately, a power supply of a slightly different breed graced our door. This one's from an Invader 2000. Those familiar with the 2000 know it has more power supplies on it than any one transmitter needs. Fortunately, the Invader 200 supply easily unbolts and can serve elsewhere, thus making room for the TBD (to be designed) modulator required for 'real' AM.

Where's this leading? I need (Yes, Herr Lockwood, "need") a modulation transformer suitable for 572B's, operating in class B, and modulating a lone 4-400. There will be about 2100 Volts available for both, so the in/out Z ought to be roughly 18K/7K. The transformer should be capable of handling 300 Watts of audio.

I have available a transformer that's 22K in and has output taps for 8K/7K/6K. It can handle 355 Watts of audio (at least) and will fit in the existing space. Since the 572B's can produce more audio than the 4-400 needs, I am thinking some slight mismatch is not going to be a big deal. Furthermore, if I use the 8K output tap on a 7K load (2100V/300mA), the 22K input impedance should be transformed down to 19.25K, which is so close to 18K that I can't imagine the delta being a problem.

Any thoughts before I start drilling holes will greatly appreciated. Thanks.

Brian Harris WA5UEK

Date: Sun, 30 Nov 1997 15:02:25 -0500
From: polepeeg@aa4rm.radio.org (BA x-actions hr)
To: boatanchors@theporch.com, rau@wco.com
Subject: VIKING MOD MODS FM HELL
Message-ID: <199711302002.PAA03897@aa4rm>

Well Larry, I wholeheartedly agree to audio putz-avoidance on those rigs because they were carefully industrial engineered to very narrow design limits... and bandwidth considerations.

But, we are, after all, amateurs. And bandwidth is just an advisory, not a rule - you know, good ARRL practice,

And I rather agree that stuff beyond 2500 hz probably doesn't add much to anyone but a sopranno's voice.

But bass is neat & I think it's ham absence is due to 2 reasons

- a. in ssb you creep into the other sideband the closer you get to the suppressed carrier - 300 is good 3db down point.

b. in plate mod. AM, the xfmr can be much teenier if little below 300 hz - note difference betw a 400 hz xfmr & a same-same 60 cps. So ham/comm jobs got away with 300 roll-offs because of the folk tale.

Q: But lower freq. resp. doesn't affect bandwidth so why not limbo lower on AM?

ANS: MODULATION XFRMR CORE SATURATION, that's why. The thing begins to magnetize & clipping goes thru the ceiling - I've got 32V3 cum HP 330 measurements for those who care.

And that distortion has Fourier components well beyond 3khz - and there goes the bandwidth to a different form of 'splatter (not the over-mod kind)' This's something not even your ARRL handbook will tell you.

So if you want DEEP bass, get at least a 150 w audio mod xfmr. to hang outa the back of that Vik II if you want Ted Knight / Wolf Man sound outa that EFJ set... but beware that 2X the bass (here dn to 150 cps) means 2X the xfmr ahron.

Best 2 any readers,

Marty

- Hey Sandy 'TVW, ain't that AWA '29 QSO party a gass!
- And Hey on dried electrolytic cathode bypasses affecting freq. response?
-Uh uh
Just reduces gain 'cause w/o 'em negative feedback results.

Date: Sun, 30 Nov 1997 15:15:48 -0500 (EST)
From: MNHopkins@aol.com
To: Boatanchors@theporch.com
Subject: ARRL cracks xtals with Tri-Tet?
Message-ID: <971130151548_-187464846@mrin42.mail.aol.com>

Men, say it ain't so!

Tell me the Tri-Tet isn't the "crystal cracker" of old!

What about the little ones? On page 34 of the December, 1946 QST, in describing the famous wooden rail "Most Inexpensive Transmitter" using a 6F6

that would make a modern products liability lawyer faint, we read:

"The oriinal version of W9JVI used the grid-plate circuit; but the QST version uses the Tri-tet circuit because it gives a little better operation on the second harmonic."

Did Byron Goodman, W1DX, lead a generation astray?

73 de ab5L, michael in dallas, student of Tecraft and International (ICM) ham products and mementoes of Six Meters' Golden Age: 1957-58

Michael Hopkins

Box 226841

Dallas, TX 75222 MNHopkins@AOL.com

Date: Sun, 30 Nov 1997 14:23:50 -0600
From: "A.B. Bonds" <ab@vuse.vanderbilt.edu>
To: boatanchors@sco.theporch.com
Subject: Re: ATTACHED FILE
Message-ID: <1.5.4.32.19971130202350.00687f08@mailhost.vuse.vanderbilt.edu>

At 12:02 AM 11/29/97 -0500, you wrote:
>Content-ID: <0_1984_880779724@mrin46.mail.aol.com.10078>
>Content-type: text/plain
>
>Can anyone identify this equipment?
>
>Bob Lindgren
>Content-ID: <0_1984_880779724@mrin46.mail.aol.com.10079>
>Content-type: image/jpeg;
> name="ART3.JPG"

PLEASE PLEASE PLEASE don't mail images as attachments to boatanchor mail!!!!
A lot of people work via modems, and it kills them....

A. B. Bonds

Date: Sun, 30 Nov 1997 20:33:02 +0000
From: Guido ROELS <on6rl@tornado.be>
To: boatanchors@sco.theporch.com
Subject: Diagram RCA aircraft transmitter

Message-ID: <3.0.1.16.19971130203302.20f72a30@mailhost.tornado.be>

Hello everyone,
I am searching the diagram of the RCA aircraft transmitter model AVT-15A.
Anyone prepared to make a copy of that ?
Best regards de Guido, ON6RL.

--

Guido Roels, Hamme, Belgium. e-mail: on6rl@tornado.be

Date: Sun, 30 Nov 1997 21:03:02 +0000
From: Sandy W5TVW <ebjr@worldnet.att.net>
To: BASWAPLIST@FOOTHILL.NET, boatanchors@theporch.com, glowbugs@www.atl.org
Subject: FS/FT: Bendix NOS "MIL" connectors
Message-ID: <19971130210257.AAB25748@LOCALNAME>

I have a quantity of Bendix 19 pin and 32 pin MIL
type connectors.

Type numbers are:

PT01CE 14-19R (SP)

" 14-19S (SP)

" 18-32P (SR)

" 18-32S (SP)

Most are NOS still in the vaporproof poly bags.

Would like to trade this lot and the installation tools

Probably have about 100 or more. These cost around \$10-\$15

each at the time and the tooling is also expensive. Will be

willing to let the whole lot go for \$100 plus shipping/packing.

If you are interested, let me know and I'll supply more details.

73,

E. V. Sandy Blaize, W5TVW

"Boat Anchors collected, restored, repaired, traded and used!"

417 Ridgewood Drive

Metairie, LA., 70001

860 Hartley 'ECO' under construction**

*** Looking for a TRC-10 transceiver *****

*** Looking for an RAL receiver *****

Date: Sun, 30 Nov 1997 16:09:33 -0500
From: polepeeg@aa4rm.radio.org (BA x-actions hr)
To: Brian.Harris@sv.sc.philips.com
Cc: boatanchors@theporch.com
Subject: Re: a big Johnson
Message-ID: <199711302109.QAA04061@aa4rm>

I've often thotta that myself. Heh, big Johnson

Naaaaah on the 19k / 7k vs 18k / 7k. Impedances are AC averages anyway
& who cares about a few percent.

Just do it - start drilling with that big johnson

Reynolds

Date: Sun, 30 Nov 97 15:10:31 -0500
From: "Joseph W. Pinner" <kc5ijd@sprintmail.com>
To: <RWDowns_WA5CAB@compuserve.com>, "Boatanchor 1" <boatanchors@theporch.com>
Subject: RE: Tube Test Set TV-2B/U Manual Needed
Message-ID: <199711302110.NAA21102@mailgate22>

>The Supplementary Test Data booklet was revised in 1962 and again in 1966.
>I think that was the last time.

Robert,

The AF T.O. (33AA21-4-21) of tube data that I have for the TV-2 is dated
15 July 1968 and includes change 1, dated 1 Jan 71.

73

Joseph W Pinner
Lafayette, LA
KC5IJD
EMail: kc5ijd@sprintmail.com

Date: Sun, 30 Nov 1997 16:07:52 +0000
From: "Lawrence R. Ware" <lrware@pipeline.com>
To: boatanchors@sco.theporch.com
Cc: listtown@jackatak.theporch.com
Subject: attached binary's et al
Message-ID: <3.0.32.19971130160731.006dfa84@pop.pipeline.com>

I'm kinda surprised the list hasn't heard from Jack or Jim Lockwood yet... both of them must be taking a long (well deserved) weekend off. Anyway, from my ba archives, not too long ago our listowner said:

>Gang-

>

>We have been kicking this around for a long time, and as yet, we are
>*NOT* ready to turn the list over for binaries, encoded pictures, and
>other fun attachments...

>

>Yes, the list processor can handle it...

>Yes, LOTS of people have mailers our use Netscape or M/S Internet
>whatever... and lots of people do not have these tools...

>

>I do NOT have time, nor do I feel real good right now, and dealing
>with all the admin email that always follows in a flurry after someone
>posts such an inclusion when I am not in a good humor is not good for
>the list...

>

>What say we hang in there for a while.

>

>We are beginning development of a web site on the porch for
>BoatAnchors... it will have archives of past postings, AND a search
>engine... it will have graphics in the raw for you to look at, and
>links to other BA related sites...

>

>It is in the PLANNING AND DEVELOPMENT stage, and I am NOT ready to
>tackle binaries...

>

>So,

>

>JUST DON'T DO IT!

>

>Mail'em to your friends. Mention that you have such a file that you
>can mail to individuals, but do NOT just tack a photo of a
>mis-assembled piece of gear into an email and send it to the list...
>unless you think you'd like to join the crowd in the penalty box!

>

<snip of some non related information removed by me>

>73

>Jack, W4KH/Mobile (75M SSB 2-letter WAS #1657/#1789 -- both all mobile! ;^)

>

- - - BoatAnchor Mailing List Archiver/Owner - - -

-Larry Ware
lrware@pipeline.com
Orlando, Florida

Date: Sun, 30 Nov 1997 15:28:13 CST
From: jackiv@juno.com (John M Iverson)
To: lrware@pipeline.com
Cc: boatanchors@theporch.com
Subject: Re: attached binary's et al
Message-ID: <19971130.152817.3470.2.jackiv@juno.com>

Hooray Larry - Jack #2
Jack Iverson K0EWU jackiv@juno.com RCA QCWA ARCI IEEE,LM ARRL

On Sun, 30 Nov 1997 16:07:52 +0000 "Lawrence R. Ware"
<lrware@pipeline.com> writes:
>I'm kinda surprised the list hasn't heard from Jack or Jim Lockwood
>yet... both of them must be taking a long (well deserved) weekend off.
>Anyway, from my ba archives, not too long ago our listowner said:
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>
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>>Yes, the list processor can handle it...
>>Yes, LOTS of people have mailers our use Netscape or M/S Internet
>>whatever... and lots of people do not have these tools...
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>>I do NOT have time, nor do I feel real good right now, and dealing
>>with all the admin email that always follows in a flurry after
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>>We are beginning development of a web site on the porch for
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>>
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>>mis-assembled piece of gear into an email and send it to the list...
>>unless you think you'd like to join the crowd in the penalty box!
>>
>
><snip of some non related information removed by me>
>
>>73
>>Jack, W4KH/Mobile (75M SSB 2-letter WAS #1657/#1789 -- both all
>mobile! ;^)
>> - - - BoatAnchor Mailing List Archiver/Owner - - -
>
>
>
>-Larry Ware
>lrware@pipeline.com
>Orlando, Florida
>

Date: Sun, 30 Nov 1997 16:30:31 -0500
From: Ed Tanton <n4xy@bellsouth.net>
To: cw@qth.net
Cc: boatanchors@theporch.com, QRP-L Reflector <qrp-l@Lehigh.EDU>
Subject: It's alive!!! It's alive!!!
Message-ID: <3.0.1.32.19971130163031.00abfb90@mail.atl.bellsouth.net>

The Signal One CX-7A will (FINALLY) be ready for QSO's later this evening, starting around 2000 EST in the vicinity of 7.018 MHz... who will be my very first CX-7A QSO? Will also try 7.042 a little later. Novice QSOs by request.

Seriously, everything LOOKS fine. Need to wire a speaker cable, but otherwise, things looked and sounded great! Simultaneous 2-freq. receive worked great... tx works fine. Keyer keyed, speaker spoke. Photons boiled off into the ether. Seemed VERY sensitive.

Next step: Ranger II & 75A-4 / HRO-60-T... but for tonight: CX-7A time. Signal reports graciously accepted, QSLs gratis, tag, title, and taxes extra. Your results may vary.

"Think you can, think you can't: either way you're right!" Henry Ford

End of BOATANCHORS Digest 1805
